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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,128	03/31/2004	Teck Hu	19	9166
22046 7590 11/24/2009 Docket Administrator - Room 3D-201E Alcatel-Lucent USA Inc.			EXAMINER	
			CHERY, DADY	
600-700 Mountain Avenue Murray Hill, NJ 07974			ART UNIT	PAPER NUMBER
-			2461	
			MAIL DATE	DELIVERY MODE
			11/24/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/815,128	HU, TECK		
Office Action Summary	Examiner	Art Unit		
	DADY CHERY	2461		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPWHICHEVER IS LONGER, FROM THE MAILING I extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION (1.136(a). In no event, however, may a reply be divill apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 14. 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, p			
Disposition of Claims				
4) Claim(s) 1 and 3-11 is/are pending in the approach 4a) Of the above claim(s) is/are withdrest 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
 9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E 	ecepted or b) objected to by the e drawing(s) be held in abeyance. S ection is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 14th 2009 has been entered.

Response to Amendment

This communication is responsive to the amendment filed on September 14th 2009. Claims 1has been amended.

No Claims have been added.

Claims have 2 and 12-15cancelled.

Claims 1, 3- 11 are pending.

Response to Arguments

Applicant's arguments, see page 5 -9, filed September 14th 2009, with respect to the rejection(s) of claim(s) 1, 3-4, 10 and 11 under 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Torsner which discloses a transmitter (Fig.1 and fig. 3, item 12). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to consider the system

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parameter state being determinable at the transmitter in order to decrease data delay, and ultimately increase data throughput rates (Col. 3, lines 13 -15).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 3-4, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Torsner et al. (US Patent 7,187,677, hereinafter Torsner).

Regarding claim 1, Torsner discloses *method of communication* (Fig. 3,4 and 5A) comprising:

determining a probability of a stalling condition occurring for at least one data packet in a sequence of data packets (CoI. 3, lines 43 – 45, Determining whether a stall condition exists with respect to receiving a missing data unit is considered as the function described by the instant application and the stall condition is considered as a probability equal to zero or one); the stalling condition probability being determined in relation to state of at least one system parameter (CoI. 2, lines 65 – CoI.3, lines 12, CoI. 3, lines 43-63, CoI. 5, lines 47 – 63 and CoI. 6, lines 14 – 24, where the parameters are acknowledgement error NACK, priority of data sent etc.. as described by the instant application) and transmitting a flush command in response to the determined probability of the stalling condition (CoI. 3, lines 55 –59, The removing of the missing data from the receiver buffer is considered as transmitting a flush command), the flush command being operative to terminate the stall condition (CoI. 6, lines 41-53, where the data are removed to stop the stall condition).

Torsner discloses the invention is employed between a transmitter and receiver (Col. 8, lines 54 -56). Torsner also discloses this invention provides a mechanism that avoids stall either at the transmitter, the receiver, or both (Col. 3, lines 35 - 50).

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However, Torsner does not explicitly mention that the system parameter state being determinable at the transmitter. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to consider the system parameter state being determinable at the transmitter in order to decrease data delay, and ultimately increase data throughput rates (Col. 3, lines 13 -15).

Regarding claim 3, Torsner discloses the at least one wireless system parameter comprises a size of the sequence of data packets, a number of repeat request processes, at least one priority for each of the number of repeat request processes, a probability of error over an uplink and a probability of error over a downlink (Col. 3, lines 64 – Col. 4, lines 36).

Regarding claim 4, Torsner discloses estimating a wait time, prior to the transmitting of a flush command, in response to the determined probability of the stalling condition (Col. 3, lines 51-55).

Regarding claim 10, Torsner discloses the method of transmitting a recommended range for a service time-out condition in response to the determined probability of a stalling condition (Col. 3, lines 6 –10). The cancellation of retransmission is considered as a service time-out condition.

Regarding claim 11, Torsner discloses the service time-out condition corresponds with at least one of a high-speed downlink packet access service and a high-speed uplink packet access service (Fig. 9). Where the core network (160) is considered as the high-speed downlink packet access service and the UMTS network (220) is considered as the high-speed uplink packet access service.

6. Claims 12 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Chao (US Patent 6,693,910, hereinafter Chao).

Claims 5- 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Torsner as applied to claim 4 above, and further in view of Watanabe et al. (US Patent 6,285,662, hereinafter Watanabe).

Regarding claim 5, Torsner discloses the *step of estimating a wait time* (Col. 3, lines 51 –52).

Torsner fails to mention the step comprises determining an average number of time slots for at least a first data packet prior to transmission.

However, Watanabe teaches a method to determine an average number of time slots prior to transmission a first data packet (**Fig. 1, 56, Col. 13, lines 13 –15 and Col. 14, lines 12 – 14).**

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to determine an average number of time slots prior to transmission a first data packet for the purpose of selecting a size of a contention window for a packet of data system (Abstract).

Regarding claim 6, Torsner discloses the step of comprises:

queuing at least the first data packet for transmission (Fig. 5A, Col.6, lines 66 – Col.7, lines 26);

determining if a second data packet having a lower sequential designation than the first data packet has stalled (Col. 3, lines 55 –57).

Torsner fails to teach *determining an average number of waiting time slots*.

However, Watanabe teaches a method to determine an average number of time slots

(Fig. 1, 56, Col. 13, lines 13 –15).

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to determine an average number of time slots for the purpose of selecting a size of a contention window for a packet of data system (Abstract).

Regarding claim 7, Torsner discloses the step of transmitting a flush command comprises: transmitting the first data packet in response to determining the second data packet has stalled (Col. 3, lines 55- 59 and Col. 7, lines 10 – 16).

Regarding claim 8, Torsner discloses the step of transmitting the first data packet comprises: determining if the second data packet is designated for a particular memory location (Fig. 5A and 5B, Col.6, lines 66 – Col.7, lines 26).

Regarding claim 9, Torsner discloses the particular memory location is at one end of a finite buffer (Fig. 5A).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DADY CHERY whose telephone number is (571)270-1207. The examiner can normally be reached on Monday - Thursday 8 am - 4 pm ESt.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. VU can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dady Chery/ Examiner, Art Unit 2461 /Jason E Mattis/ Primary Examiner, Art Unit 2461